

Abstract

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Abstract of the Disclosure

A method for applying a coating to an optical surface of an optical device. In one embodiment, the method includes the steps of placing a coating solution in a cliché of a cliché plate, transferring the coating solution from the cliché to a deformable body of a transfer pad, and pressing the transfer pad to the optical surface so as to transfer the coating solution from the deformable body of the transfer pad to the optical surface. The method further includes a step of irradiating the coating solution associated with the optical surface at a wavelength of microwave so as to form a coating layer on the optical surface. The coating layer can be further cured to form a desired coating on a proper optical surface. The optical device can be an optical lens having at least one optical surface, or a mold that can be used to produce an optical lens. In other words, the present invention allows a coating to be applied directly to an optical surface of an optical lens. Alternatively, a coating can be first applied to an optical surface of at least one mold and then be transferred to an optical surface of an optical lens during a casting process.